

Access DB# 122943

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Darayne Bos F Examiner #: 68951 Date: 5/24/04
Art Unit: 2600 Phone Number 30 _____ Serial Number: 10178508
Mail Box Location: PL2 Y A37 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

US 6320771

STAFF USE ONLY

Searcher: KET

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: 5/25/04

Date Completed: _____

Searcher Prep & Review Time: _____

Clerical Prep Time: _____

Online Time: 25

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic _____

Litigation X

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

STN _____

Dialog _____

Questel/Orbit _____

Dr. Link _____

Lexis/Nexis _____


Sequence Systems _____

WWW/Internet _____

Other (specify) _____

Query/Command : prt max legalall

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN -  US6320971 B1 20011120 [US6320971]
TI - (B1) Speaker system and a method for improving sound quality thereof
IN - (B1) TOZAWA KATSUTOSHI (JP)
AP - US84268297 19970415 [1997US-0842682]
FD - Cont. of US373250 (Abandoned)
PR - JP23754592 19920723 [1992JP-0237545]
IC - (B1) H04R-001/02 H04R-001/20
EC - G10K-011/172
 G10K-011/178
 H04R-001/34
PCL - ORIGINAL (O) : 381386000; CROSS-REFERENCE (X) : 181151000
 181155000 181198000 381348000 381352000 381353000
DT - Basic (replaces original non EP official language basic.)
CT - US1975201; US3327808; US3684051; US3978941; US4398619; US4750585;
 DE3927178 A; GB659818 A; JP0186191
 The Radio Technology, article from the magazine for audiophile, Dec. 1, 1994.

Supplementary European Search Report in the European Patent Application No. 93900401.6 corresponding to the present application, including copies of the first pages of the references cited in the report.


Reference 1 Remarks about GA-A-659818.

Reference 2 (Referential material regarding technical matters such as "voice coil impedance").

Official Communication dated Oct. 5, 1999 from the EPO.


STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
AB - A speaker system suppresses standing waves generated in the system and reproduces clear and dynamic bass sound. The system includes a cabinet formed of acoustic isolation walls, and at least one partition wall situated inside the cabinet to form a space by surrounding the space. The partition wall suppresses the standing waves generated inside the cabinet and is formed of a material having high internal loss. The space has a total capacity more than one tenth of a capacity of the cabinet, wherein a closed end of the partition wall is located between one-half and four-fifths of a distance from one end to the other end, and an opening area of the same partition wall is located at a side opposite to the closed end in a longitudinal direction of the cabinet. The opening area is located between four-fifths and five fifths of a distance from one end to the other end.
UP - 2001-48

1 / 1 LGST - ©EPO

PN -  US6320971 B1 20011120 [US6320971]

AP - US84268297 19970415 [1997US-0842682]
ACT - 20040302 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031120
UP - 2004-11

1/1 CRXX - ©CLAIMS/RRX

PN -  6,320,971 A 20011120 [US6320971]
PA - Tozawa, Katsutoshi JP
ACT - 20031120 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040302
REISSUE REQUEST NUMBER: 10/718508
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2644

Reissue Patent Number:

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6320971

<=1> Get Drawing Sheet 1 of 9

November 20, 2001

Speaker system and a method for improving sound quality
thereof

REISSUE: November 20, 2003 - Reissue Application filed Ex. Gp.: 2644; Re. S.N.
10/718,508 (O.G. March 2, 2004)

APPL-NO: 842682 (08)

FILED-DATE: April 15, 1997

GRANTED-DATE: November 20, 2001

CORE TERMS: cabinet, cardboard, partition, box, corrugated, tube, wave,
frequency, speaker unit, resonance ...

LEXIS-NEXIS
Library: PATENT
File: ALL

6,320,971 OR 630971

LEXIS-NEXIS
Library: PATENT
File: CASES

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

6,320,971 OR 630971

LEXIS-NEXIS
Library: PATENT
File: JNLS

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LEVEL 1 - 1 OF 2 STORIES

Copyright 2003 The Press Enterprise Co.
Press Enterprise (Riverside, CA)

January 23, 2003, Thursday

LEXIS-NEXIS
Library: NEWS
File: CURNWS

SECTION: LOCAL; Pg. B01

LENGTH: 380 words

HEADLINE: New middle school readied: FOR THE DEAF: A 24-classroom facility will
open on the Riverside campus in spring.

BYLINE: JACQUIE PAUL; THE PRESS-ENTERPRISE

LEVEL 1 - 2 OF 2 STORIES

Copyright 2002 Paddock Publications, Inc.
Chicago Daily Herald

December 14, 2002, Saturday F3

LEXIS-NEXIS
Library: NEWS
File: CURNWS

SECTION: SPORTS; Pg. 8

LENGTH: 456 words

HEADLINE: Everything clicks for Kainz, Kaneland

BYLINE: Christine Bolin Daily Herald Sports Writer

s pn=us 6320971
S5 1 PN=US 6320971
? t 5/39/1

5/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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11597248

Basic Patent (No,Kind,Date): WO 9403025 A1 19940203 <No. of Patents: 009>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
CN 1113066	A	19951206	CN 93105398	A	19930603
CN 1060608	B	20010110	CN 93105398	A	19930603
DE 69233164	C0	20030918	DE 69233164	A	19921228
EP 669781	A1	19950830	EP 93900401	A	19921228
EP 669781	A4	19950523	EP 93900401	A	19921228
EP 669781	B1	20030813	EP 93900401	A	19921228
KR 187565	B1	19990601	KR 9570137	A	19950113
US 6320971	BA	20011120	US 842682	A	19970415
WO 9403025	A1	19940203	WO 92JP1721	A	19921228 (BASIC)

Priority Data (No,Kind,Date):

CN 93105398 A 19930603
CN 93103538 A 19930331
JP 92237545 A 19920723
WO 92JP1721 W 19921228

PATENT FAMILY:

CHINA (CN)

Patent (No,Kind,Date): CN 1113066 A 19951206
LOUD-SPEAK SYSTEM (English)
Patent Assignee: KATSUTOSHI TOZAWA (JP)
Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No,Kind,Date): CN 93105398 A 19930603; CN 93103538 A 19930331; JP 92237545 A 19920723
Applic (No,Kind,Date): CN 93105398 A 19930603
IPC: * H04R-001/28; H04R-001/02
Derwent WPI Acc No: * G 94-049157
Language of Document: Chinese
Patent (No,Kind,Date): CN 1060608 B 20010110
BOX FOR LOUD-SPEAKER SYSTEM (English)
Patent Assignee: KATSUTOSHI TOZAWA (JP)
Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No,Kind,Date): CN 93105398 A 19930603; CN 93103538 A 19930331; JP 92237545 A 19920723
Applic (No,Kind,Date): CN 93105398 A 19930603
IPC: * H04R-001/28; H04R-001/02
Derwent WPI Acc No: * G 94-049157
Language of Document: Chinese

GERMANY (DE)

Patent (No,Kind,Date): DE 69233164 C0 20030918
LAUTSPRECHERSYSTEM (German)
Patent Assignee: TOZAWA KATSUTOSHI (JP)
Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No,Kind,Date): JP 92237545 A 19920723; WO 92JP1721 W 19921228
Applic (No,Kind,Date): DE 69233164 A 19921228
IPC: * H04R-001/02; H04R-001/28; G10K-011/16
Language of Document: German

GERMANY (DE)

Legal Status (No, Type, Date, Code, Text):

DE 69233164 P 20030918 DE REF CORRESPONDS TO
(ENTSPRICHT)
EP 669781 P 20030918

EUROPEAN PATENT OFFICE (EP)

Patent (No, Kind, Date): EP 669781 A1 19950830
SPEAKER SYSTEM. (English; French; German)
Patent Assignee: TOZAWA KATSUTOSHI (JP)
Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No, Kind, Date): WO 92JP1721 W 19921228; JP 92237545 A
19920723

Applic (No, Kind, Date): EP 93900401 A 19921228

Designated States: (National) DE; GB

IPC: * H04R-001/02; H04R-001/28; G10K-011/16

Derwent WPI Acc No: * G 94-049157

Language of Document: English

Patent (No, Kind, Date): EP 669781 A4 19950523
SPEAKER SYSTEM. (English; French; German)
Patent Assignee: TOZAWA KATSUTOSHI (JP)
Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No, Kind, Date): WO 92JP1721 W 19921228; JP 92237545 A
19920723

Applic (No, Kind, Date): EP 93900401 A 19921228

Designated States: (National) DE; GB

IPC: * H04R-001/02; H04R-001/28; G10K-011/16

Derwent WPI Acc No: * G 94-049157

Language of Document: English

Patent (No, Kind, Date): EP 669781 B1 20030813
SPEAKER SYSTEM (English; French; German)
Patent Assignee: TOZAWA KATSUTOSHI (JP)
Author (Inventor): TOZAWA KATSUTOSHI (JP)
Priority (No, Kind, Date): WO 92JP1721 W 19921228; JP 92237545 A
19920723

Applic (No, Kind, Date): EP 93900401 A 19921228

Designated States: (National) DE; GB

IPC: * H04R-001/02; H04R-001/28; G10K-011/16

Derwent WPI Acc No: * G 94-049157

Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No, Type, Date, Code, Text):

EP 669781 P 19920723 EP AA PRIORITY (PATENT
APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 669781 P 19921228 EP AA 19920723
JP 92237545 A PCT-APPLICATION
(PCT-ANMELDUNG)

EP 669781 P 19921228 EP AE 19921228
WO 92JP1721 W EP-APPLICATION
(EUROPAEISCHE ANMELDUNG)

EP 669781 P 19950523 EP AK 19921228
DESIGNATED CONTRACTING
STATES MENTIONED IN A SUPPLEMENTARY SEARCH
REPORT: (IN EINEM ERGAENZENDEN
RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)

EP 669781 P 19950523 EP A4 DE GB
SUPPLEMENTARY SEARCH REPORT
(ERGAENZENDER RECHERCHENBERICHT)

EP 669781	P	19950830	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)
			DE GB	
EP 669781	P	19950830	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 669781	P	19950830	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 950223
EP 669781	P	19951018	EP R17P	REQUEST FOR EXAMINATION FILED (CORRECTION) (PRUEFUNGSANTRAG GESTELLT (KORR.)) 950223
EP 669781	P	19951102	EP R17P	REQUEST FOR EXAMINATION FILED (CORRECTION) (PRUEFUNGSANTRAG GESTELLT (KORR.)) 950223
EP 669781	P	19991117	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 19991005
EP 669781	P	20030312	EP RAP1	APPLICANT REASSIGNMENT (CORRECTION) (ANMELDER UEBERTRAGUNG (KORR.))
			TOZAWA, KATSUTOSHI	
EP 669781	P	20030312	EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.))
			TOZAWA, KATSUTOSHI	
EP 669781	P	20030813	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)
			DE GB	
EP 669781	P	20030813	EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)
EP 669781	P	20030813	GB FG4D/REG	EUROPEAN PATENT GRANTED
EP 669781	P	20030918	EP REF	CORRESPONDS TO: (ENTSPRICHT) DE 69233164 P 20030918

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 187565 B1 19990601
 SPEAKER SYSTEM (English)
 Patent Assignee: TOZAWA KATSUTOSHI (JP)
 Author (Inventor): TOZAWA KATSUTOSHI (JP)
 Priority (No,Kind,Date): JP 92237545 A 19920723; WO 92JP1721 W
 19921228
 Applic (No,Kind,Date): KR 9570137 A 19950113
 IPC: * H04R-001/02
 Derwent WPI Acc No: * G 94-049157
 Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 6320971 BA 20011120
 SPEAKER SYSTEM AND A METHOD FOR IMPROVING SOUND QUALITY THEREOF
 (English)
 Patent Assignee: TOZAWA KATSUTOSHI (JP)
 Author (Inventor): TOZAWA KATSUTOSHI (JP)
 Priority (No,Kind,Date): JP 92237545 A 19920723
 Applic (No,Kind,Date): US 842682 A 19970415

National Class: * 381386000; 381348000; 381352000; 381353000;
181151000; 181155000; 181198000
IPC: * H04R-001/02; H04R-001/20
Derwent WPI Acc No: * G 94-049157
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 95373250	A	19950207	US REFW	CORRESPONDS TO PCT
			APPLICATION	(ENTSPRICHT PCT ANMELDUNG)
			WO 9403025	P
US 97842682	A	19970415	US REFW	CORRESPONDS TO PCT
			APPLICATION	(ENTSPRICHT PCT ANMELDUNG)
			WO 9403025	P
US 6320971	P	19920723	US AA	PRIORITY (PATENT)
			JP 92237545	A 19920723
US 6320971	P	19970415	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 842682	A 19970415
US 6320971	P	20011120	US BA	PATENT (NO PREVIOUS
			PRE-GRANT PUBLICATION)	
US 6320971	P	20040302	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			DATE: 20031120	

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9403025 A1 19940203

SPEAKER SYSTEM (English)

Patent Assignee: TOZAWA KATSUTOSHI (JP)

Author (Inventor): TOZAWA KATSUTOSHI (JP)

Priority (No,Kind,Date): JP 92237545 A 19920723

Applic (No,Kind,Date): WO 92JP1721 A 19921228

Designated States: (National) JP; KR; RU; US (Regional) AT; BE; CH;
DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Filing Details: WO 100000 With international search report

IPC: * H04R-001/02; H04R-001/28; G10K-011/16

Derwent WPI Acc No: ; G 94-049157

Language of Document: Japanese

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9403025	P	19920723	WO AA	PRIORITY (PATENT)
			JP 92237545	A 19920723
WO 9403025	P	19921228	WO AE	APPLICATION DATA (APPL.
			DATA)	
			WO 92JP1721	A 19921228
WO 9403025	P	19940203	WO AK	DESIGNATED STATES CITED IN A
			PUBLISHED APPLICATION WITH SEARCH REPORT	
			(DESIGNATED STATES CITED IN A PUBLISHED APPL.	
			WITH SEARCH REPORT)	
			JP KR RU US	
WO 9403025	P	19940203	WO AL	DESIGNATED COUNTRIES FOR
			REGIONAL PATENTS CITED IN A PUBLISHED	
			APPLICATION WITH SEARCH REPORT (DESIGNATED	
			COUNTRIES FOR REGIONAL PATENTS CITED IN A	
			PUBLISHED APPL. WITH SEARCH REPORT)	
			AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT	
			SE	
WO 9403025	P	19940203	WO A1	PUBLICATION OF THE
			INTERNATIONAL APPLICATION WITH THE	
			INTERNATIONAL SEARCH REPORT (PUB. OF THE	

			INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9403025	P	19940414	WO DFPE REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
WO 9403025	P	19940511	WO 121 EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9403025	P	19950207	WO ENP ENTRY INTO THE NATIONAL PHASE IN: US 373250 A 19950207
WO 9403025	P	19970415	WO ENP ENTRY INTO THE NATIONAL PHASE IN: US 842682 A 19970415